SPP-A945

SERVICE MANUAL

US Model

SPECIFICATIONS

General

Operating frequency
  900 MHz ISM bands/10 channels
Dial signal
  Tone, 10 PPS (pulse) selectable
Supplied accessories
  See page 7.

Handset

Power source
  Rechargeable battery pack BP-T23
Battery life
  Talk time: Approx. 7 hours
  Standby: Approx. 7 days
Dimensions
  Approx. 60 x 185 x 42 mm (w/h/d), antenna excluded
  (approx. $2\,^{3}/_{8} \times 7\,^{1}/_{4} \times 1\,^{5}/_{8}$ inches)
  Antenna: 30 mm ($1\,^{1}/_{4}$ inches)
Mass
  Approx. 260 g (approx. 9 oz), battery included

Base phone

Power source
  DC 10 V from AC power adaptor
Battery charging time
  Approx. 8 hours
Dimensions
  Approx. 175 x 50 x 220 mm (w/h/d), antenna excluded
  (approx. $7 \times 2 \times 8\,^{3}/_{4}$ inches)
  Antenna : Approx. 150 mm (approx. 6 inches)
Mass
  Approx. 640 g (approx. 1 lb 7 oz)

Answering machine

Maximum recording time
  About 18 minutes, using incorporated IC
Greeting message
  Up to 90 seconds per each
Incoming and Memo message
  Up to 4 minutes per message

Design and specifications are subject to change without notice.

CORDLESS TELEPHONE WITH ANSWERING SYSTEM

MICROFILM

SONY®

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Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

This section is extracted from instruction manual.

Step 2

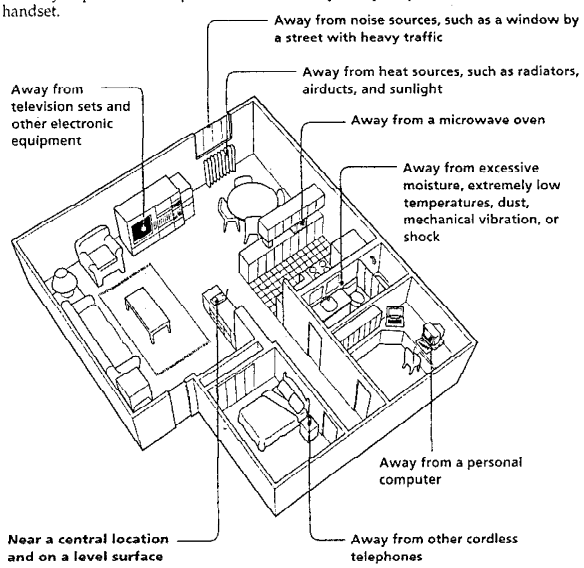
Setting up the base phone

Do the following:

- Choose the best location
- Connect the base phone
- Choose the dialing mode

Choosing the best location

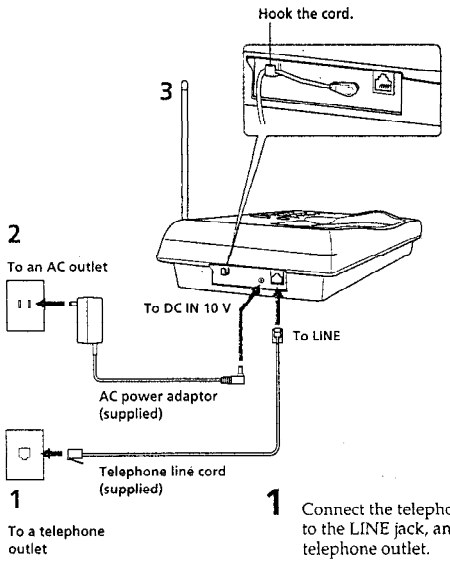
Where you place the base phone affects the reception quality of the handset.


Away from noise sources, such as a window by a street with heavy traffic
Away from heat sources, such as radiators, airducts, and sunlight
Away from television sets and other electronic equipment
Away from a microwave oven
Away from excessive moisture, extremely low temperatures, dust, mechanical vibration, or shock
Away from a personal computer
Near a central location and on a level surface
Away from other cordless telephones

CAUTION: The cordless telephone operates at a frequency that may cause interference to nearby TVs and VCRs; the base phone should not be placed near or on top of a TV or VCR; and if interference is experienced, moving the cordless telephone farther away from the TV or VCR will often reduce or eliminate the interference.

Connecting the base phone

If you want to hang the base phone on the wall, see page 37.



1 Connect the telephone line cord to the LINE jack, and to a telephone outlet.

2 Connect the AC power adaptor to the DC IN 10 V jack, and to an AC outlet.

3 Raise the antenna. Make sure it points toward the ceiling.

continued

Step 2: Setting up the base phone (continued)

Notes

- Use only the supplied AC-T105 AC power adaptor. Do not use any other AC power adaptor.
- Connect the AC power adaptor to a continuous power supply.
- Place the base phone close to the AC outlet so that you can easily unplug the AC power adaptor.

Polarity of the plug

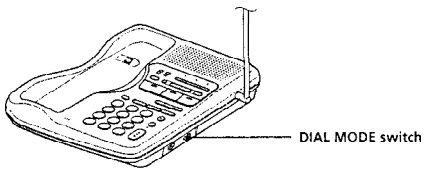
Tip

If your telephone outlet is not modular, contact your telephone service company for assistance.

Modular

Choosing the dialing mode

For the telephone to work properly, select an appropriate dialing mode (tone or pulse).



If you are not sure of your dialing system

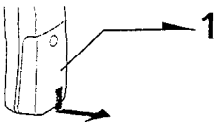
Make a trial call with the DIAL MODE switch set to TONE.

If the call connects, leave the switch as it is; otherwise, set it to PULSE.

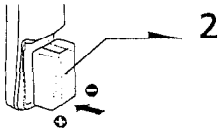
Step 3

Preparing the battery pack

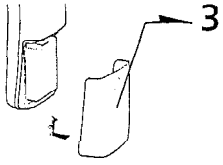
Insert the battery pack into the handset, then place the handset on the base phone.



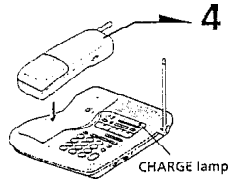
1 Slide open the battery compartment lid of the handset.



2 Insert the battery pack (with contacts facing down) into the battery compartment.



3 Close the battery compartment lid.



4 Place the handset on the base phone. The CHARGE lamp lights up when the handset is properly seated on the charge terminals of the base phone. Charge the battery pack for more than 8 hours so that the battery is fully charged.

continued

Step 3: Preparing the battery pack for the handset (continued)

Battery duration

A fully charged battery pack lasts for about:

- 7 hours when you use the handset continuously.
- 7 days when the handset is in standby mode.

Battery life may vary depending on usage condition and ambient temperature.

Notes

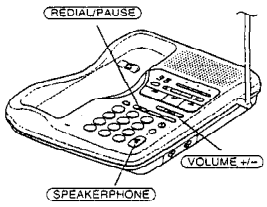
- The CHARGE lamp of the base phone is always lighted when the handset is placed on the base phone, even if the battery pack has been fully charged.
- The battery works best when charged after several calls.
- The battery pack will gradually discharge over a long period of time even if the handset is not in use. If you leave the battery pack in the handset without charging it, the battery pack will be completely discharged. The battery may require several times of charges to recover to its full capacity.

When to purchase a new battery pack

If the battery lasts only a few minutes even after 8 hours of charging, the usable life of the battery has expired and needs replacement. Contact your local Sony authorized dealer or service center, and ask for a Sony BP-T23 rechargeable battery pack.

Making calls (continued)

Making calls through the speakerphone



Press (SPEAKERPHONE) on the base phone.
The SPEAKERPHONE lamp lights up.
"- -" lights up on the display.

Dial the phone number.

To adjust the speaker volume, press (VOLUME +/–).

When you are done talking, press (SPEAKERPHONE) again.

To obtain the best speakerphone performance

- You may not be able to hear the other party's voice in a noisy place. Use the speakerphone in a quiet room.
- Do not bring your hand or other object too close to the microphone or you will hear a shrill noise ("feedback").
- When the speaker volume is too loud, or the telephone has been placed too close to a wall, the volume may drop suddenly. This is due to a circuit in the telephone designed to prevent feedback. In such cases, lower the speaker volume slightly.

Redialing

On the handset

1 Press (TALK/FLASH).
The TALK lamp lights up.

2 Press (REDIAL) to redial the number last dialed.

Note

If the number last dialed exceeds 16 digits, only the first 16 digits are dialed.

On the base phone

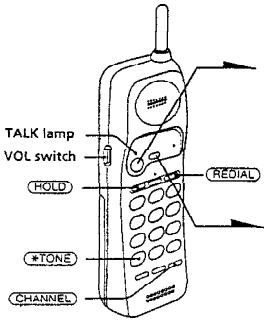
1 Press (SPEAKERPHONE).
The SPEAKERPHONE lamp lights up.
"- -" lights up on the display.

2 Press (REDIAL/PAUSE) to redial the number last dialed.

Note

If the number last dialed exceeds 16 digits, only the first 16 digits are dialed.

Making calls



1 Press (TALK/FLASH).
The TALK lamp lights up, then you will hear a dial tone. If you hear beeps, move closer to the base phone.

2 Dial the phone number.

3 When you are done talking, press (OFF) or replace the handset on the base phone.
The TALK lamp goes off.

Additional tasks

To	Do this
Put a call on hold	Press (HOLD). The TALK lamp flashes slowly. Press (TALK/FLASH) to resume the conversation.
Improve reception	Press (CHANNEL)*.
Adjust the handset volume	Slide the VOL switch.
Switch to tone dialing temporarily	Press (*TONE) after you are connected. The line will remain in tone dialing until disconnected.

* If you hear a long beep when you press (CHANNEL), move closer to the base phone.

Notes

- Before dialing, make sure you can hear the dial tone. Otherwise you cannot dial correctly.
- When the TALK lamp lights up by pressing (TALK/FLASH), the IN USE lamp on the base phone lights up simultaneously.
- When the TALK lamp repeats sets of two flashes, the base phone is in use.

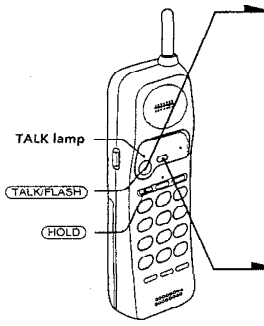
If the handset battery becomes weak during a call

You hear a beep and the BATT LOW lamp on the handset flashes.

The call will disconnect soon. Replace the handset on the base phone to charge.

continued

Receiving calls



1 When the phone rings:

- Press (TALK/FLASH) (or any button except (OFF)).

or

- Pick up the handset from the base phone when the handset is placed on the base phone.

The TALK lamp and the IN USE lamp on the base phone light up at the same time.

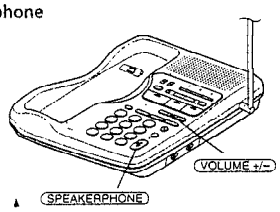
2 When you are done talking, press (OFF) or replace the handset on the base phone.
The TALK and IN USE lamps go off.

Additional tasks

To	Do this
Put a call on hold	Press (HOLD). Press (TALK/FLASH) to resume the conversation.
Switch to another call ("call waiting" service*)	Press (TALK/FLASH) to access the flash function. Press (TALK/FLASH) again to return to the first caller.
Adjust the ringer volume of the base phone	See page 20.

* Contact your telephone company to subscribe to this service.
See page 19 to change the ringer type.

Receiving calls through the speakerphone



When the phone rings, press (SPEAKERPHONE) on the base phone.
The SPEAKERPHONE lamp lights up.
"- -" lights up on the display.

To adjust the speaker volume, press (VOLUME +/–).

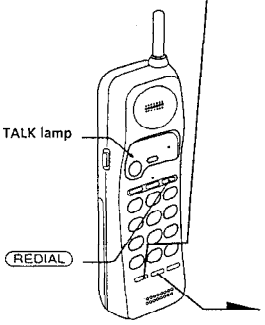
When you are done talking, press (SPEAKERPHONE) again.

To obtain the best speakerphone performance, see page 14.

Speed dialing

You can dial with a touch of a few keys by storing a phone number on a dialing key. You can store up to 10 phone numbers separately on the handset and on the base phone.

Storing phone numbers



1 Press PGM.
The TALK lamp flashes quickly.

2 Press a dialing key (0 to 9) to select the destination for the phone number.
You will hear a confirmation beep.

3 Enter the phone number you want to store.
You can enter up to 16 digits, including a tone and a pause, each of which is counted as one digit.

4 Press SPEED DIAL.
You will hear another confirmation beep and the number is stored. The TALK lamp goes off.

Notes

- In step 3, if you do not enter the phone number, the previously stored number will be erased.
- Do not allow more than 20 seconds to elapse between each step of the procedure.
- The handset must be off to store phone numbers.
- You cannnot store phone numbers on the handset while the speakerphone is being used on the base phone. The TALK lamp will repeat sets of two flashes to indicate this condition.

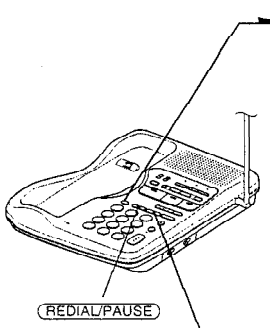
Tips

- If you enter a wrong number, press SPEED DIAL, then start from the beginning.
- Use the supplied directory to write down what you have stored to the speed dialing numbers.

To store the previous number dialed

Press REDIAL directly after step 2, then go to step 4.

Storing phone numbers on the base phone



1 Press PGM.
The SPEAKERPHONE lamp flashes quickly.

2 Press a dialing key (0 to 9) to select the destination for the phone number.
You will hear a confirmation beep.

3 Enter the phone number you want to store.
You can enter up to 16 digits, including a tone and a pause, each of which is counted as one digit.

4 Press SPEED DIAL.
You will hear another confirmation beep, and the number is stored.

Notes

- In step 3, if you do not enter the phone number, the previously stored number will be erased.
- Do not allow more than 20 seconds to elapse between each step of the procedure.
- You cannot store phone numbers on the base phone while the handset is being used. The IN USE lamp will light up to indicate this condition.

Tips

- If you enter a wrong number, press SPEED DIAL, then start from the beginning.
- Use the supplied directory to write down what you have stored to the speed dialing numbers.

To store the previous number dialed

Press REDIAL/PAUSE directly after step 2, then go to step 4.

continued

Speed dialing (continued)

To store a number to be dialed via Private Branch Exchange (PBX)

Before entering a phone number in step 3 on the previous page, do as follows:

1 Enter the outside line access digit (e.g. 9).
2 Press REDIAL/PAUSE.

To change a stored number

Store a new number by following the instructions on the previous page.

To clear a number from memory

1 Press PGM.
2 Press the speed dialing key you want to clear.
3 Press SPEED DIAL.

Making calls with speed dialing on the handset

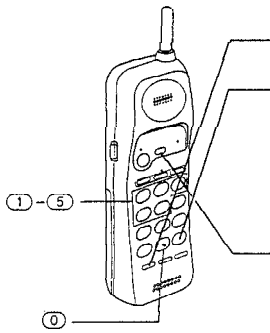
1 Press TALK/FLASH.
The TALK lamp lights up.
2 Press SPEED DIAL.
3 Enter the desired speed dialing key (0 to 9).
The phone number stored in the speed dialing key will be dialed.

Making calls with speed dialing on the base phone

1 Press SPEAKERPHONE.
The SPEAKERPHONE lamp lights up.
"- -" lights up on the display.
2 Press SPEED DIAL.
3 Enter the desired speed dialing key (0 to 9).
The phone number stored in the speed dialing key will be dialed.

Setting the ringer type

You can select a ringer from four types.



1 Press PGM.
2 Press #.
3 Press a number button, 1 to 4, to select a ringer type.
You will hear the corresponding ringer tone.
4 Press OFF.

Turning off the ringer of the handset

1 Press PGM.
2 Press #.
3 Press 5.
4 Press OFF.
The ringer on the handset is turned off.

To turn the ringer on again

Follow the instructions described in "Setting the ringer type."

Note

You cannnot set the ringer type while the speakerphone is being used on the base phone. The TALK lamp will repeat sets of two flashes to indicate this condition.

continued

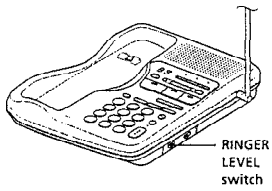
Checking the ringer type

1 Press (PGM).
2 Press (#).
3 Press (0).
The currently selected ringer sounds.
4 Press (OFF).

Note
If you hear no sound (only key beep), the ringer on the handset has been turned off.

Adjusting the ringer volume level of the base phone

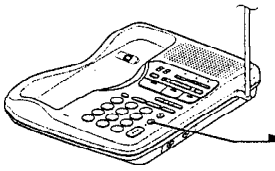
Set the RINGER LEVEL switch on the base phone to HIGH or LOW. To turn the ringer off, set it to OFF.



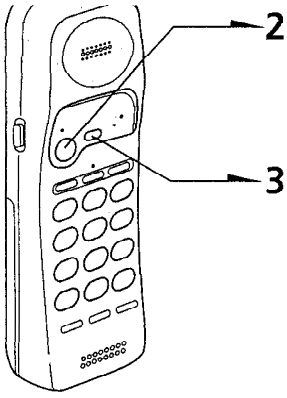
Switching the phones during a call

When you put a call on hold, you can return to the call on the other phone without disconnecting the call.

To switch from the base phone to the handset



1 Press (HOLD) on the base phone.
The SPEAKERPHONE lamp and the TALK lamp on the handset will flash slowly.



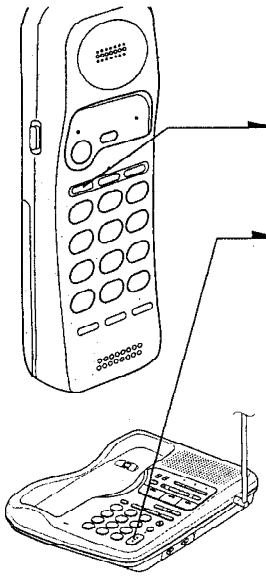
2 Press (TALK/FLASH) or pick up the handset.
The TALK lamp will light up. The SPEAKERPHONE lamp will go off and the IN USE lamp will light up.

3 When you are done talking, press (OFF) or replace the handset to the base phone.

Tip
If you pick up the handset while talking through the speakerphone on the base phone, the call will be switched to the handset.

continued

To switch from the handset to the base phone



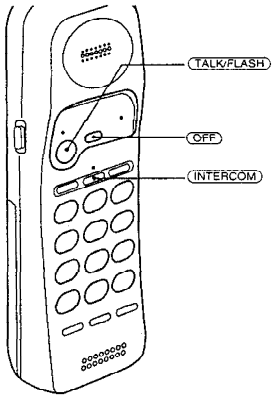
1 Press (HOLD) on the handset.
The TALK lamp will flash slowly.

2 Press (SPEAKERPHONE).
The SPEAKERPHONE lamp will light up. "- -" lights up on the display. The TALK lamp will repeat sets of two flashes.

3 When you are done talking, press (SPEAKERPHONE) again.

Talking between the handset and the base phone (Intercom)

You can talk between the base phone and the handset. You can start the intercom from either phone.



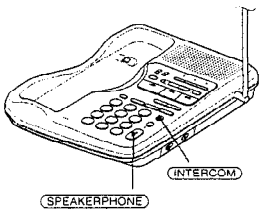
To talk from the handset to the base phone

Press (INTERCOM) on the handset.
After the base phone rings once, you will be connected automatically. When a person at the base phone answers, you can talk.
The INTERCOM lamp on the handset and the base phone will light up.

When you are done talking
Press (OFF).

To talk from the base phone to the handset

Press (INTERCOM) on the base phone.
The handset rings. When the person at the handset presses (INTERCOM), you can talk.
The INTERCOM lamp on the handset and the base phone will light up.

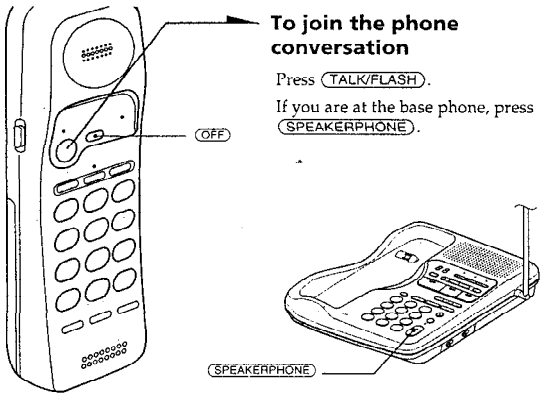


When you are done talking or if no one answers the phone
Press (INTERCOM) again.

Notes
- The call to the handset will stop automatically if it is unanswered for a minute.
- If there is an incoming call while on the intercom, the ringer will ring on both the base phone and the handset. To answer the call, press (TALK/FLASH) on the handset or (SPEAKERPHONE) on the base phone. The intercom will be disconnected automatically, and the call will be connected to the unit whose button you have pressed.

Having a three-way conference

The handset and the base phone operate like two extensions on the same line. Both phones can operate at the same time, so that you, the outside caller, and the person at the other phone can engage in a three-way conversation.



To join the phone conversation

Press (TALK/FLASH).

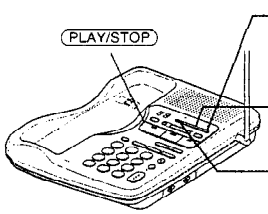
If you are at the base phone, press (SPEAKERPHONE).

When you are done talking

Press (OFF) on the handset/(SPEAKERPHONE) on the base phone, respectively.

Setting up the answering machine

Setting the time and day of the week



1 Press (MENU) repeatedly until you hear "Set day and time." "- -" blinks on the display.

2 Press (SELECT) repeatedly to select the day of the week.

3 Press (TIME/SET). The day is set and the hour is announced.

4 Press (SELECT) repeatedly to select the hour.

5 Press (TIME/SET). The hour is set and the minute is announced.

6 Press (SELECT) repeatedly to select the minute.

7 Press (TIME/SET). The day and time you just entered is announced and the clock restarts.

8 Press (PLAY/STOP) to exit the menu setup mode.

Notes

- You cannnot set up the answering machine while the speakerphone is being used on the base phone.
- Press and hold (SELECT) to increase the minute setting by 10.
- The time and day are preset to Monday, 12:00 AM.
- "CL" flashes when the day and time is cleared or delayed due to a power interruption, or when you connect the base phone to the AC outlet for the first time.

continued

Setting up the answering machine (continued)

Tip

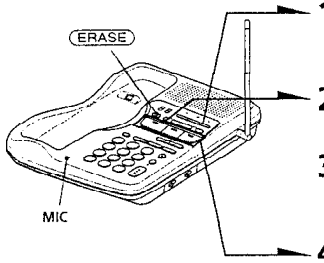
All the mailbox buttons ((MAILBOX 1), (MAILBOX 2), and (MAILBOX 3)) work as the (PLAY/STOP) button; press any of the three in this case.

To hear the current time

Press (TIME/SET). The current time setting is announced.

Recording the greeting

You can record your own greeting for the "normal" and "announcement only" modes (page 33).



1 Press (MENU) repeatedly until "Set out-going message" is announced. "- -" blinks on the display.

2 Press (REC/MEMO). "Now recording" is announced and a long beep sounds.

3 Speak into the base phone microphone (MIC). The display starts counting. You can record up to 90 seconds.

4 To stop recording, press (PLAY/STOP). Your greeting replays automatically.

Notes

- If you do not record your own greeting, a prerecorded greeting will be assigned automatically (see page 27).
- If your greeting is less than two seconds, the greeting is not recorded. A prerecorded greeting will be assigned automatically.
- If a call comes in during recording, recording stops automatically.
- If 90 seconds have passed or the memory becomes full in step 3, recording stops automatically.
- "Memory full" is announced if no recording space is available when you press (REC/MEMO). Erase unnecessary messages (see page 32).

Tip

To record a greeting for the "announcement only" mode, select the announcement only mode first (see page 33), then follow the instructions above. Otherwise, the normal greeting will be recorded.

To check the greeting

Press (MENU) repeatedly until "Set out-going message" is announced. Then press (PLAY/STOP) to play back the greeting.

To change the greeting

Record a new greeting by following the instructions on the previous page. The new greeting replaces the old one.

To erase the greeting

1 Press (MENU) repeatedly until "Set out-going message" is announced.

2 Press (ERASE).

Notes

- You can also erase the greeting during playback.
- If you have erased your own greeting, a prerecorded greeting will be assigned automatically.

Prerecorded greetings

Normal mode: "Hello, I'm unable to answer your call right now. Please leave your name, number and message after the tone."

Announcement only mode: "Hello, I'm unable to answer your call right now. Please call again. Thank you."

continued

Setting the number of rings

You can select the number of times the phone rings before it answers to take a message.
There are four modes: 2, 4, 6, and Toll Saver.

1 Press (MENU) repeatedly until you hear "Set number of rings."
"- -" blinks on the display.

2 Press (SELECT) repeatedly to select a ring duration (2, 4, 6, or Toll Saver).
To answer after 2 rings, select "2."
To answer after 4 rings, select "4."
To answer after 6 rings, select "6."
Select "Toll Saver" to answer after 2 rings when there are new messages, and 4 rings where there are no new messages.

3 Press (TIME/SET).
The ring duration setting is announced.

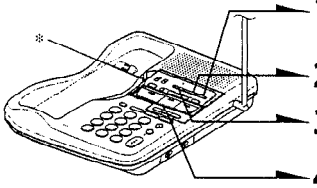
4 Press (PLAY/STOP) to exit the menu setup mode.

Notes

- When the number of rings is set to "Toll Saver", the phone answers after 2 rings if new messages are recorded. If no new messages are recorded, it answers after 4 rings. When you hear 3 rings, you will know that there are no new messages. You can save the toll for the call when you pick up messages from an outside phone.
- The number of rings is preset to 4 rings.

Setting the audible message alert

You have the option of having a beep tell you if you have received any new incoming messages.



1 Press (MENU) until you hear "Set audible message alert."
"- -" blinks on the display.

2 Press (SELECT) to set the audible message alert on or off.

3 Press (TIME/SET).
The setting is announced.

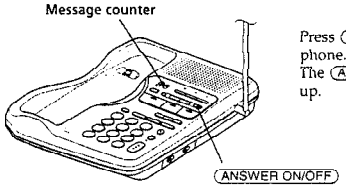
4 Press (PLAY/STOP) to exit the menu setup mode.

Notes

- When the audible message alert is turned on, you will hear a beep every 10 seconds if there are any new messages.
- To stop the beep, press any button related to the answering machine function or VOLUME +/– (marked by the asterisk[*] in the illustration above).
- *The audible message alert is preset to off.*

continued

Turning on the answering function



Press (ANSWER ON/OFF) on the base phone.
The (ANSWER ON/OFF) button lights up.

When a caller calls

The caller can choose one of two ways to leave a message:

- Wait until the greeting finishes, then start recording a message. (By default, the message goes into box 1).
- Select a box by pressing (*)(1) (Mailbox 1), (*)(2) (Mailbox 2), or (*)(3) (Mailbox 3), while the greeting is being played back.

The greeting message stops and the caller hears a voice guidance. Start recording.

Notes

- If 4 minutes have passed while recording the incoming message, the line will be disconnected automatically.
- If the message is shorter than 2 seconds, the message will not be recorded.

To turn off the answering function

Press (ANSWER ON/OFF) on the base phone.
The (ANSWER ON/OFF) button goes off.

Note

The answering function is preset to on.

Tip

The answering machine will automatically answer a call after 10 rings, even if the answering function is off and announces "Please enter your security code" to prompt the caller to turn on the answering function.

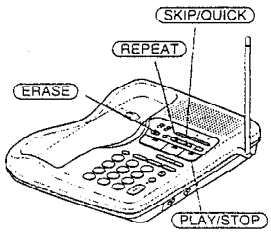
When the memory is full

The total recording time of this answering machine is approximately 18 minutes (including the greeting, messages, and memo).
When the remaining recording time becomes less than 30 seconds, "F" flashes on the display and the answering machine goes into the memory full status. In this status, the answering machine will not answer a call until after 10 rings even if the answering function is on. To avoid this, erase unnecessary messages (see page 32). You can also erase messages from an outside phone (see page 36).

Playing back messages

If there are new messages, the display flashes the number of new messages.

You will hear beeps if the audible message alert setting is on (see page 29).



Press a mailbox button ((MAILBOX 1), (MAILBOX 2), or (MAILBOX 3)) to play back new messages in the selected mailbox.

Note

If a call comes in, the playback will stop.

Tip

If there are no new messages, all the previously reviewed messages are played back.

Additional tasks when playing back messages

To	Do this
Stop playback	Press a mailbox button ((MAILBOX 1), (MAILBOX 2), or (MAILBOX 3)).
Repeat the current message	Press (REPEAT) during playback.
Skip the current message	Press (SKIP/QUICK).
Go back to the previous message	Press (REPEAT) within the first 2 seconds of the current message playback.
Play back quickly	Press and hold (SKIP/QUICK) during playback. Release (SKIP/QUICK) to return to normal.

Note

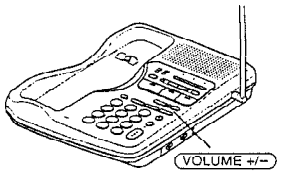
A time and day stamp is announced after each message.

Tip

The messages are saved even after a power failure.

continued

Adjusting the speaker volume



To adjust the speaker volume, press VOLUME +/–.

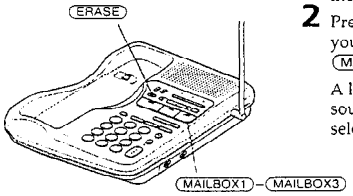
Notes

- When you have reached the minimum or maximum volume level, you will hear three short beeps.
- You cannot adjust the speaker volume while the phone is ringing.

Tip

There are 8 steps for the volume level (1 to 8). The volume level is preset to 4.

Erasing messages



1 Press and hold ERASE for more than 2 seconds.

2 Press a button for the mailbox you want to erase (MAILBOX 1, MAILBOX 2, or MAILBOX 3).

A long confirmation beep sounds and all messages in the selected mailbox are erased.

To erase individual messages

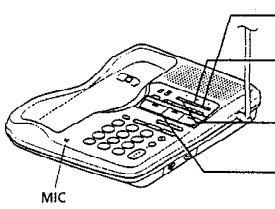
Press ERASE while playing back the message that you want to erase.

Note

The display shows the total number of "new" (i.e. unreviewed) messages. Therefore, the display is reset to "0" when you have played back all new messages, whether they have been erased or not. Be sure to erase unnecessary messages before the memory becomes full.

Selecting the Announcement Only Mode

You can set the answering machine to play the greeting without recording incoming messages (Announcement only mode). You might want to select this mode when, for example, you expect to be away for a while and you cannot pick up messages.



1 Press MENU repeatedly until you hear "Set announce only."

2 Press SELECT to set the announcement only mode on or off.

3 Press TIME/SET. The setting is announced.

4 Press PLAY/STOP to exit the menu setup mode. Display shows "A" when the answering machine is set to the announcement only mode.

Notes

- To activate the announcement only mode, you have to turn on the answering machine.
- The announcement only mode is preset to off.

Screening calls

You can screen calls by leaving the answering machine on while you are at home. When a call is answered, you can hear the message being recorded through the base phone. You can decide either to continue recording or to answer the call.

To answer the call

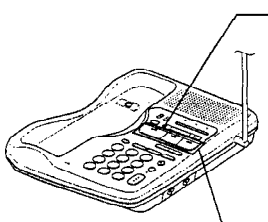
Press TALK/FLASH on the handset.

Notes

- Press VOLUME +/– to adjust the speaker volume. If the speaker volume is set at its minimum level, you will not be able to hear incoming calls.
- The answering machine will stop automatically when the handset or a parallel phone is picked up. If the answering machine does not stop, press either PLAY/STOP on the base phone, or * 0 on the handset or a parallel phone. The recording will remain as a new message.

Recording a memo message

You can leave messages for other users of the unit.



1 Press REC/MEMO.

2 Press a mailbox button (MAILBOX 1, MAILBOX 2, or MAILBOX 3) to which you want to leave the message. "Now recording" is announced and counting starts.

3 Speak into the base phone microphone (MIC) to record your message.

A memo can be up to four minutes in length.

4 Press PLAY/STOP to stop recording.

The message number on the display increases by one.

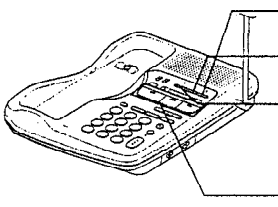
Notes

- If the memory becomes full, the answering machine will stop recording.
- "Memory full" is announced if no recording space is available when you press REC/MEMO.
- If your message is shorter than two seconds, the recording will be canceled.
- The display flashes "99" if you record a memo for more than 99 seconds.
- If a call comes in during recording, the recording will be stopped.

Operating from an outside phone

Setting your security code

To operate the answering machine from a touch-tone phone while you are away from home, you need to set your security code.



1 Press MENU repeatedly until you hear "Set security code."

2 Press SELECT to change the security code setting.

3 Press TIME/SET to confirm your choice. The new security code is announced.

4 Press PLAY/STOP to exit the menu setup mode.

Note

Press and hold SELECT to increase the security code by 10.

continued

Picking up new messages

1 Call your telephone number from a touch-tone phone.
2 When you hear the greeting, press # and enter your security code.
A confirmation beep sounds. The number of new messages will be announced.
3 Press the keys in the "Table of control codes" below for the desired operation command.
4 When you are finished, disconnect the line.

Notes

- Do not let two seconds elapse between each digit of the security code and the control code.
- If you did not turn on the answering machine, your phone answers automatically after ten rings.
- If the message recording memory runs out, the answering machine turns off automatically. "Memory full. Please enter your security code" is announced.
- If you enter wrong security codes three times, the line will disconnect.
- If no keys are pressed within 20 seconds, the line will disconnect.

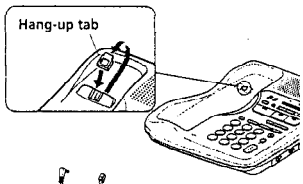
Tips

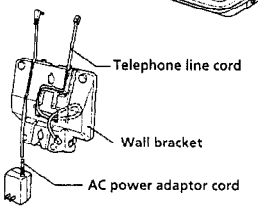
- Press *0 on the touch-tone keypad or PLAY/STOP on the base phone to disconnect the line.
- Cut off the Remote Control Card from the supplied Quick Start Guide and carry it with you to see how to operate from an outside phone.

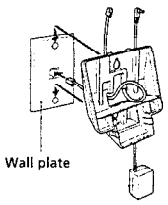
Table of control codes

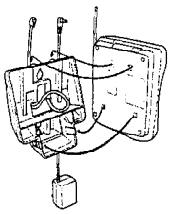
To	Key	Notes
Play back messages in mailbox 1	#1	Plays back from the first new message.
Play back messages in mailbox 2	#2	Plays back from the first new message.
Play back messages in mailbox 3	#3	Plays back from the first new message.
Repeat/skip backward	#4	Press during playback to repeat a message. To skip backward, press within two seconds after the current message starts.
Get help	*5	Press to access simple voice menu. Press again to access advanced voice menu.
Stop operation	#3	Stops every function.
Skip forward	#6	Press during playback to skip forward.
Record greeting	*7	"Now recording" is announced.
Check greeting	#7	Review your greeting.
Record a memo	*8	Select the mailbox by entering "1", "2" or "3".
Erase individual messages	#9	Press during playback.
Turn answering machine on/off	#0	Turns the system on/off. "Answering machine on" or "Answering machine off" is announced.

Mounting the base phone on a wall







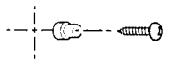


1 Remove the hang-up tab and replace it upside down.

2 Attach the AC power adaptor cord and the telephone line cord to the wall bracket.

3 Hook the wall bracket to the wall plate, and plug the telephone line cord into the telephone outlet.

If the wall plate is not available, use the two screws provided to mount the bracket.



If the wall bracket is unstable, tear off the two protuberances at the horizontal arrows (↔/↔) and insert them in the slots at the lower corners of the wall bracket, marked by the vertical arrows (↕).

4 Insert the upper tabs first, then press down the base phone so that the lower tabs on the bracket go into the base phone. Raise the antenna vertically.